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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/675,622	09/29/2000	Arvind Kumar	42390P9709	9572

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EXAMINER

PRIETO, BEATRIZ

ART UNIT PAPER NUMBER

2142

DATE MAILED: 10/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/675,622

Applicant(s)

KUMAR, ARVIND

Examiner

Prieto B.

Art Unit

2142

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 August 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 8, 9, 15-17, 22 and 23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8-9, 15-17 and 22-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 9/29/00 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This communication is in response to Request for continued Examination under 37 CFR §1.114 filed 08/04/05, claims 7, 10-14, 18-21 and 24-25 were previously canceled, and claims 1, 5, and 15 have been amended. Claim 1-6, 8-9, 15-17 and 22-23 main pending.
2. Regarding previous rejection under 35 USC 102 of claims 1-16, 29-28 under GAO, Applicant's indication (p. 6 of remarks) that the action's statement: "substantial features of the invention is the same as disclosing every element of the claim", is noted.
3. Acknowledgment is made to applicant's intention or election not to include a Brief Summary of the Invention section as part of the disclosure of instant application (see MPEP§ 608.01(d)).
4. Quotation of the appropriate paragraphs of 35 USC 102 that form the basis for the rejections under this section made in this Office action may be found in previous office action.
5. Claims 1-6, 8-9, 15-17 and 22-23 are rejected under 35 USC 102(e) as being anticipated by GAO (US Patent No. 6,581,094).

Regarding claim 1, a user at a console creating a query, wherein the console includes a device managing a network device (see GAO: col 10/lines 1-21, col 10/lines 23-40, col 14/lines 1-7, 21-23, 27-32);

sending the query to a search engine to facilitating searching information about the network device (see GAO col 3/lines 41-47, col 14/lines 7-15, e.g. HTTP request for the requested file specified by an URL as shown on table I, lines 1-38, or table II, lines 1-23, Fig. 3, col 11/lines 25-36);

receiving a ("discovery information") query (see GAO: col 3/lines 42-47, col 5/lines 1-13) on a network device (90) storing files containing information (col 4/lines 2-3, 10-15, 31-36, col 5/lines 8-9) about the network device (Gao: col 4/lines 45-67) sent via a search engine XML enable module (Gao: col 5/lines 1-13, browser sends query to search engine 80 of Fig. 1 see col 14/lines 1-15);

receiving the result of standard Internet search including searchable UDD files matching said query (see GAO: col 4/lines 45-67, col 1/lines 60-65, col 5/lines 1-13) and wherein

said search engine includes a device (66) to input search parameters (col 3/lines 12-15) to be searched used standard Internet searching techniques (col 3/lines 42-47) using a web browser to identify

the devices (col 4/lines 63-65) one of the following parameters; type of network device, status of network device or capability of network device (col 11/lines 25-36).

Regarding claim 2, searching via a search engine XML enabled (search engine which is XML enabled see GAO: col 5/lines 8-9, or XML standard search technology see col 4/lines 2-3, 45-67); searching (query) discovery information (browser 30/50 of Fig. 1) to be sent to the XML based search engine (Gao: col 4/lines 45-64 and col 14/lines 1-32); search engine includes XML files each having information about each respective network device (Gao: col 3/lines 24-47, col 9/lines 9-13).

Regarding claim 3, manipulating the retrieved discovery information (Gao: update or upgrade retrieve UDD file data see col 14/lines 25-32, selected UDD file for retrieval and respective processing for rendering display, i.e. "manipulating" see col 3/lines 48-61, searchable UDD file via a web browser 50 see col 4/lines 45-64).

Regarding claim 4, displaying the manipulated discovery information (Gao: deliver for display selected UDD file "information" see col 3/lines 48-54, XML based document displayable on any device see col 4/lines 18-22, display of retrieved UDD file see col 11/lines 25-36 and Fig. 3).

Regarding claim 5, this claim is the machine-readable medium that provides instructions, which when executed by a machine, cause said machine to perform operations of the method claim discussed on claim 1, same rationale of rejection is applicable.

Regarding claim 6, this claim is the machine-readable medium that provides instructions, which when executed by a machine, cause said machine to perform operations of the method claim discussed on claim 2, same rationale of rejection is applicable.

Regarding claims 8-9, this claim is the machine-readable medium that provides executable instructions to perform the method associated with the searching functions discussed on the method claims 2-4, therefore same rationale of rejection is applicable.

Regarding claim 15, includes features discussed on claim 1, same rationale of rejection is applicable, further, wherein a plurality network device (90) (GAO: col 3/lines 62-col 4/line 4) including XML based discovery information (GAO: device 90 including UDD file see col 4/lines 2-3, file in the XML form see

col 4/lines 45-54) and a search engine to search discover information encoded in an XML document stored in the network device (GAO: col 4/lines 2-3, 10-15, 31-36, col 5/lines 8-9) about the network device (GAO: col 4/lines 45-67, sent via a search engine XML enable module col 5/lines 1-13, browser sends query to search engine 80 of Fig. 1 see col 14/lines 1-15).

Regarding claim 16, search engine is an XML based search engine (GAO: col 5/lines 1-13), search engine includes XML files each having information about each respective network device (Gao: col 3/lines 24-47, col 9/lines 9-13), said files formatted in XML (Gao: col 4/lines 45-67).

Regarding claim 23, wherein the XML based discovery information includes data describing the capabilities, location, i.e. geographic information or URL, characteristic, features of the network device (Gao: information includes see col 4/lines 45-54, col 5/lines 39-54, device type see table I, lines 1-10).

Regarding claim 22, network appliances (“devices”) may be a printer or a personal digital assistant (i.e. a computer), and a copier (i.e. a printer), and the like (Gao; see col 3/lines 62-col 4/line 4, server and computers see col 7/lines 56-64) to be managed by a managing device (Gao: col 2/lines 64-67) and managed another device (Gao: col 15/lines 31-38).

6. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gao in view of Vaishnavi et. al. U.S. Patent No. 5,734,642 (Vaishnavi hereafter).

Regarding claims 17-18, Gao teaches where network devices include a printer, a pager, a fax machine, a personal digital assistant, a digital copier, a controller 92, I/O devices 94, a system bus 96, and a network interface circuit 100 and the like (col 3/lines 62-col 4/line 2), however Gao does not explicitly teach where network devices include a router ~~and a switches~~;

Vaishnavi teaches a system/method related to system management and the discovery of network devices, including where a discovery process includes transmitting a query for information regarding the devices on the network (col 5/lines 24-43), wherein network device typically as known in the art, network devices include switches and routers (col 1/lines 11-19). It would have been obvious to one ordinary skilled in the art at the time the invention was made given Gao’s suggestion that the networked environment illustrated includes the Internet and that therefore would include a large number of the component shown and other circuits and devices well know to this configuration and which are apparent

to one skilled in the art. Routers and switches would be readily apparent and inherent in Gao's Internet based networked environment. One ordinary skilled in the art would be motivate to include other type of network devices e.g. routers/switches, those inherent in an Internet based networked system which Gao suggest can be accommodated in the definition of UDD.

Response to argument

7. Regarding claims 1-6, 8-9, 13-17 and 22-23 are rejected under 35 U.S.C. 102 as being anticipated by Gao it is argued that the applied reference does not teach claim limitation as added. Specifically, added limitation, search engine includes a query formulation device to input one parameter: type, status or capabilities of the network devices.

In response to the above-mentioned argument, applicant's interpretation of the applied reference has been fully considered. However, Gao teaches where the server computer (60 of Fig. 1) includes standard server components: a central processing unit 62, **input/output devices** 66 (see col 3/lines 12-15); the server further includes a search module (80) that facilitates searches for specified digital devices having a UDD file which is searched using **standard Internet searching techniques** (col 3/lines 42-47), which include using a **web browser** to identify digital devices (col 4/lines 63-64); the foregoing code (i.e. executable code to perform a query, col 10/lines 32-40) can be implemented in a visual form so that a **user can interact** with the page, wherein the **screen browser** 142 of Fig. 3 on a display device 150, such as a computer monitor displays the contents of the UDD file, including identity attributes 116, **service attributes** 120, profile attributes 124, access attributes 130 query executable modules 136 (col 11/lines 25-36). Further disclosure reads, that those skilled in the art will appreciate that the disclosed technology allows digital devices are easily and precisely located through a **web browser search**. The web browser search can be used to identify digital devices with selected attributes, such as device location, device **speed**, device **functionality**, and the like, as specified in the UDD file 76 for each digital device. The search module 80 may rely upon existing Internet searching techniques to match specified attributes in a **search request** with attributes in a UDD file. For example, the search request may specify **generic attributes** 112 including system attributes 118 and geography attributes 122. The search may further **specify device attributes** 114 including profile attributes 124 and connection attributes 126. A UDD file satisfying the specified criteria is then **selected** using standard searching techniques (col 14/lines 1-15).

8. Applicant's arguments that the prior art applied does not teach a device to input the type, status or capabilities of the network device searched are not persuasive.

9. Applicant's arguments filed 08/04/05 have been fully considered but not rendered persuasive.
10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prieto, B. whose telephone number is (571) 272-3902. The Examiner can normally be reached on Monday-Friday from 6:00 to 3:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, Andrew T. Caldwell can be reached at (571) 272-3868. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800/4700. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system, status information for published application may be obtained from either Private or Public PAIR, for unpublished application Private PAIR only (see <http://pair-direct.uspto.gov> or the Electronic Business Center at 866-217-9197 (toll-free).

Any response to this action should be mailed to:
Commissioner of Patents and Trademarks
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Alexandria, VA 22313-1450

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Customer Service Window located at the Randolph Bldg.
401 Dulany St.
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Faxed to the Central Fax Office:
(703) 872-9306 (old No. in service until Sept. 15, 2005),
(571) 273-8300 (New Central Fax No.) or Telephone:
(703) 306-5631 for TC 2100 Customer Service Office.

Beatriz Prieto
BEATRIZ PRIETO
PRIMARY EXAMINER